



# TEAC

D00337800A

## SERVICE MANUAL

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# T-H500

## AM/FM STEREO TUNER

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### NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components.  
They must be replaced with identical components- refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.  
[DM]: JAPAN [E]: EUROPE

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## Specifications

### FM Section

|  |   |
|--|---|
| Tuning Range                             | : 87.50MHz~108.00MHz<br>(50KHz steps)(EUR)<br>76.0MHz~90.0MHz<br>(100KHz steps)(DM) |
| Usable Sensitivity (IHF): Mono           | : 10dB $\mu$ V(EMF)   |
| 50dB Quieting Sensitivity :              |   |
| Mono                                     | : 20dB $\mu$ V(EMF)   |
| Stereo                                   | : 40dB $\mu$ V(EMF)   |
| Image Rejection Ratio                    | : 70dB  |
| Frequency Responses                      | : 20Hz~15KHz,<br>+0.5dB/ -3dB   |
| Distortion (at 60dB $\mu$ V)             |   |
| Mono                                     | : 0.15%, Stereo : 0.3%  |
| Signal-to-Noise Ratio (at 65dBf, 1KHz) : |   |
| Mono                                     | : 70dB  |
| Stereo                                   | : 65dB  |
| AM suppression Ratio                     | : 55dB  |
| Stereo Separation (1KHz) :               | 40dB  |
| Output (Level/Impedance) :               | 1.2V/2.2Kohm  |

### AM Section

|                            |                                  |
|----------------------------|----------------------------------|
| Tuning Range               | : 522KHz~1620KHz<br>(9KHz steps) |
| Usable Sensitivity         | : 55dB/m                         |
| Selectivity                | : 55dB (at $\pm$ 9KHz)           |
| Image Rejection Ratio      | : 35dB                           |
| Distortion                 | : 1% (at 85 dB/m)                |
| Signal-to Noise Ratio      | : 40dB (at 85 dB/m)              |
| Output (Level/Impedance) : | 270mV/2.2Kohm                    |

### General

|                     |  |
|---------------------|--|
| Power Requirements  | : 230V AC, 50Hz(EUR)<br>100V AC, 50/60Hz(DM) |
| Power Consumption   | : 8W(EUR)<br>7W(DM)                          |
| Dimensions(W×H×D) : | 285×101×312m/m                               |
| Weight(net)         | : 3.0Kg                                      |

### Accessories

AM Loop Antenna×1, FM Antenna×1  
RCA pin plug cord×1,  
Remote Control Cable×1

- Improvements may result in specifications and features changing without notice.

## ■ ALIGNMENT INSTRUCTIONS

### EQUIPMENT NEEDED:

AM Signal Generator  
FM Signal Generator  
Oscilloscope  
VTVM(AC, DC)  
Test loop antenna (AM Adjustment)  
Dummy antenna (FM Adjustment)  
Stereo signal modulator (RDS IN)  
Frequency counter  
Distortion analyser

### IMPORTANT

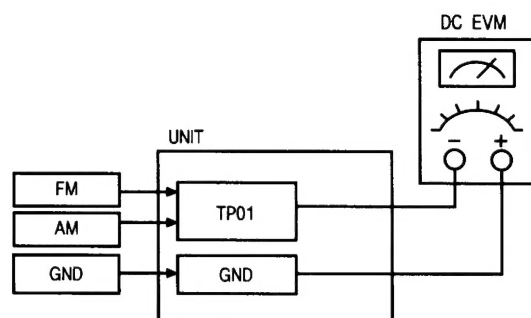
1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

| Band \ Item | Modulation        | Modulation frequency |
|-------------|-------------------|----------------------|
| AM          | 30%               | 400Hz                |
| FM          | 100% (75KHz Dev.) | 400Hz                |

# MEASUREMENTS AND ADJUSTMENTS

## 1. TUNING FREQUENCY RANGE ADJUSTMENTS

(FM, AM) DC VOLT METER .....CONNECT TO TEST POINT TP01 and GND

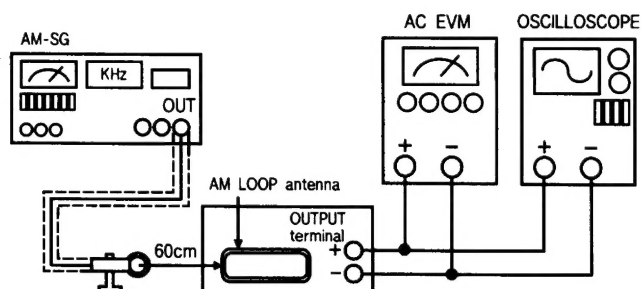


| No | Band | Frequency | Adjust for | Adjustment |
|----|------|-----------|------------|------------|
| 1  | FM   | 87.50MHz  | 1.5V       | L7         |
| 2  | AM   | 522KHz    | 1V         | L202       |

## 2. AM TRACKING ADJUSTMENT

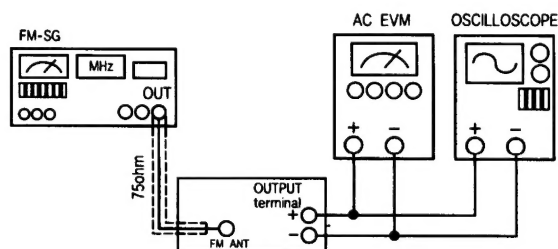
Signal Generator ..... Connects to the AM Ant. Coil through the loop antenna.  
Adjust for the indication of VTVM of the wave form of scope to be maximum.

| BAND | Step | Frequency                          | Adjust for          | Adjustment |
|------|------|------------------------------------|---------------------|------------|
| AM   | 1    | 612KHz                             | Maximum sensitivity | L201, T201 |
|      | 2    | 1503KHz                            | Maximum sensitivity | CT21       |
|      | 3    | Repeat steps 1 and 2 several times |                     |            |



## 3. FM-RF ADJUSTMENT

Signal Generator ..... Connect to FM ANT JACK (FM IN) through the dummy.



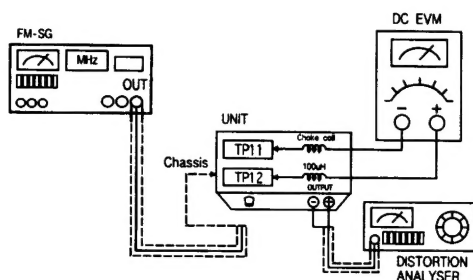
| No | Frequency                   | Adjust for          | Adjustment |
|----|-----------------------------|---------------------|------------|
| 1  | 90.10MHz                    | Maximum Sensitivity | L2, L5, L6 |
| 2  | Repeat step 1 several times |                     |            |

#### 4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METER ..... Connect to TP11(-), TP12(+) Through the choke coil (100 $\mu$ H)

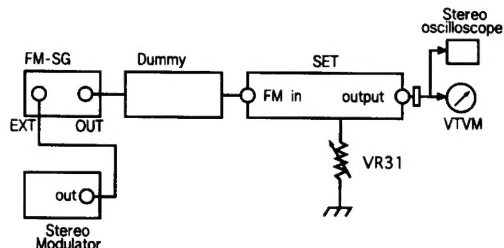
Signal Generator ..... Connect to FM ANT Jack (FM IN) through the dummy.

Distortion Meter ..... Connect to the output.



| No | Frequency                           | Adjust for      | Adjustment |
|----|-------------------------------------|-----------------|------------|
| 1  | 100.10MHz                           | DC Voltmeter 0V | T101       |
| 2  | 100.10MHz                           | Minimum T. H. D | T102       |
| 3  | Repeat steps 1 and 2 Several times. |                 |            |

#### 5. FM STEREO SEPARATION



| Pilot signal | Adjust for                           | Adjustment |
|--------------|--------------------------------------|------------|
| ON           | Different of R and L must be maximum | VR31       |

NOTE : In case of adjusting the stereo separation, of input is L (or R) channel, R (or L) channel must be maximum.

#### 6. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM SIGNAL GENERATOR ..... Connec to FM ANT Jack(FM IN)through the dummy

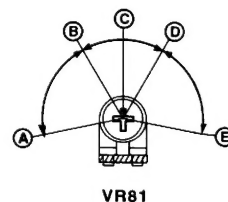
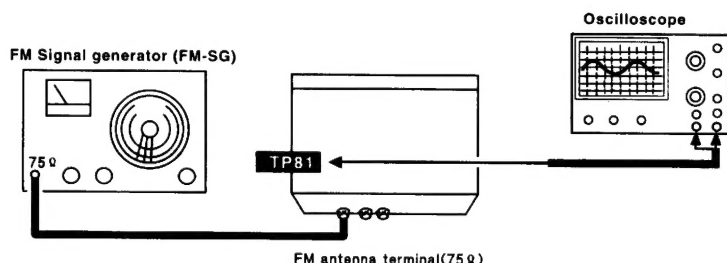
AM SIGNAL GENERATOR ..... Connect to AM ANT, Coil through the Loop antenna

| BAND | STEP | SIGNAL GENERATOR | Adjust for                                 | Adjustment |
|------|------|------------------|--|------------|
| FM   | 1    | 100.1MHz 35dB    | <input type="checkbox"/> TUNED Display OFF | VR11       |
|      | 2    | 100.1MHz 35dB    | <input type="checkbox"/> TUNED Display ON  | VR11       |
| AM   | 1    | 999KHz 80dB      | <input type="checkbox"/> TUNED Display OFF | VR21       |
|      | 2    | 999KHz 80dB      | <input type="checkbox"/> TUNED Display ON  | VR21       |

#### 7. FM RDS ADJUSTMENT [EUR]

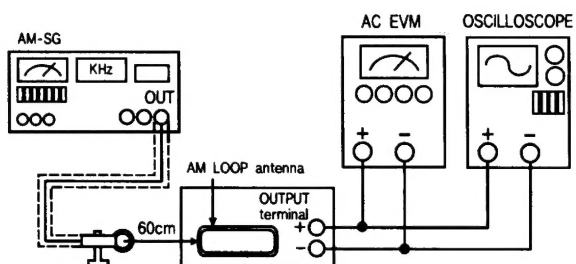
FM Signal Generator(RDS IN) ..... Connect to FM ANT Jack(FM IN) through the dummy

Oscilloscope ..... Connect to TP81(+) GND(-)



- Ⓐ-Ⓑ, Ⓓ-Ⓔ : RDS OFF position.
- Ⓑ-Ⓓ : RDS ON position.  
(indicator lighting)
- Ⓒ : Adjust point of  
RDS circuit.  
(TP81 : 1.0~1.2V)

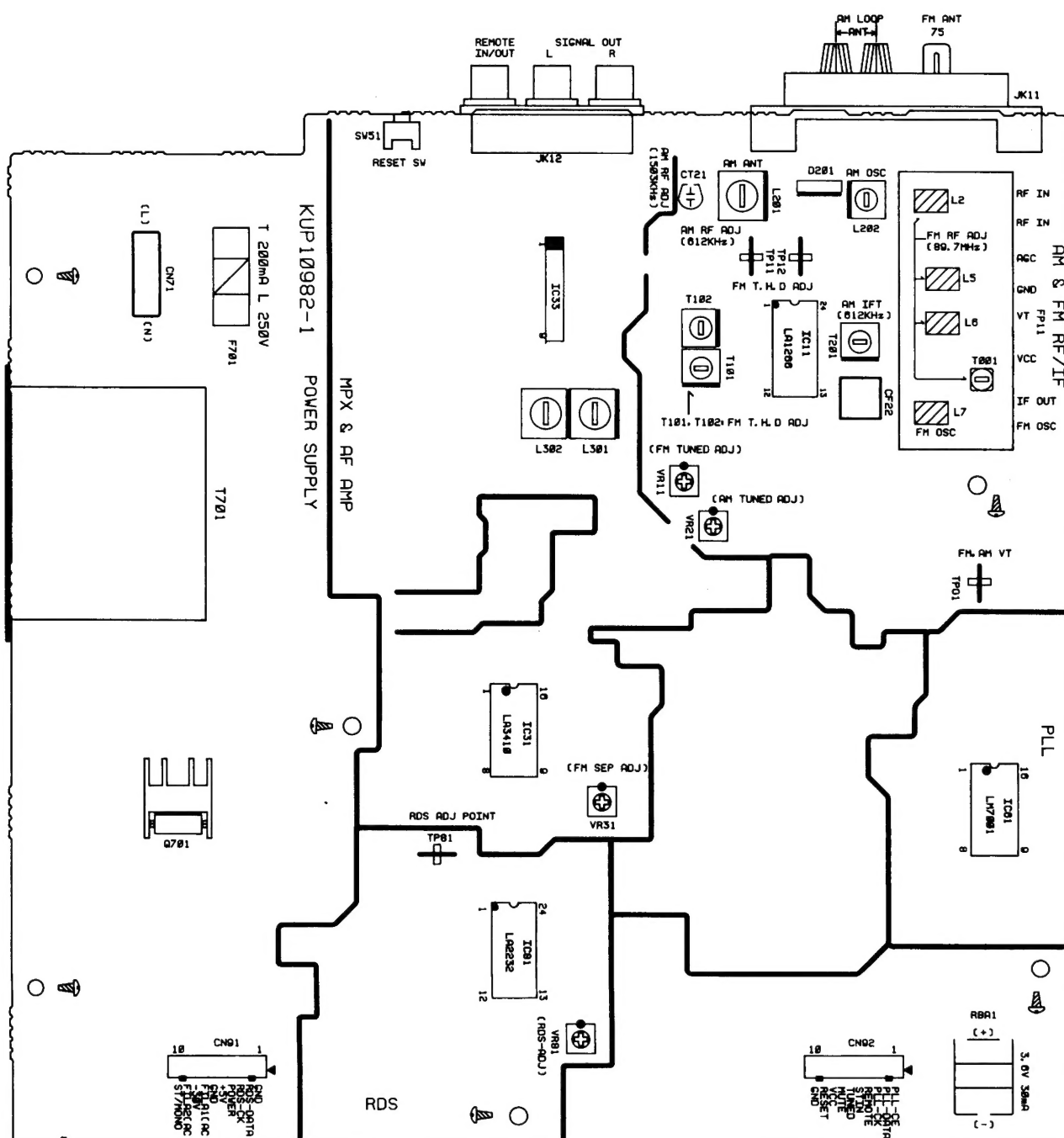
## 8. AM STEREO SEPARATION [DM]



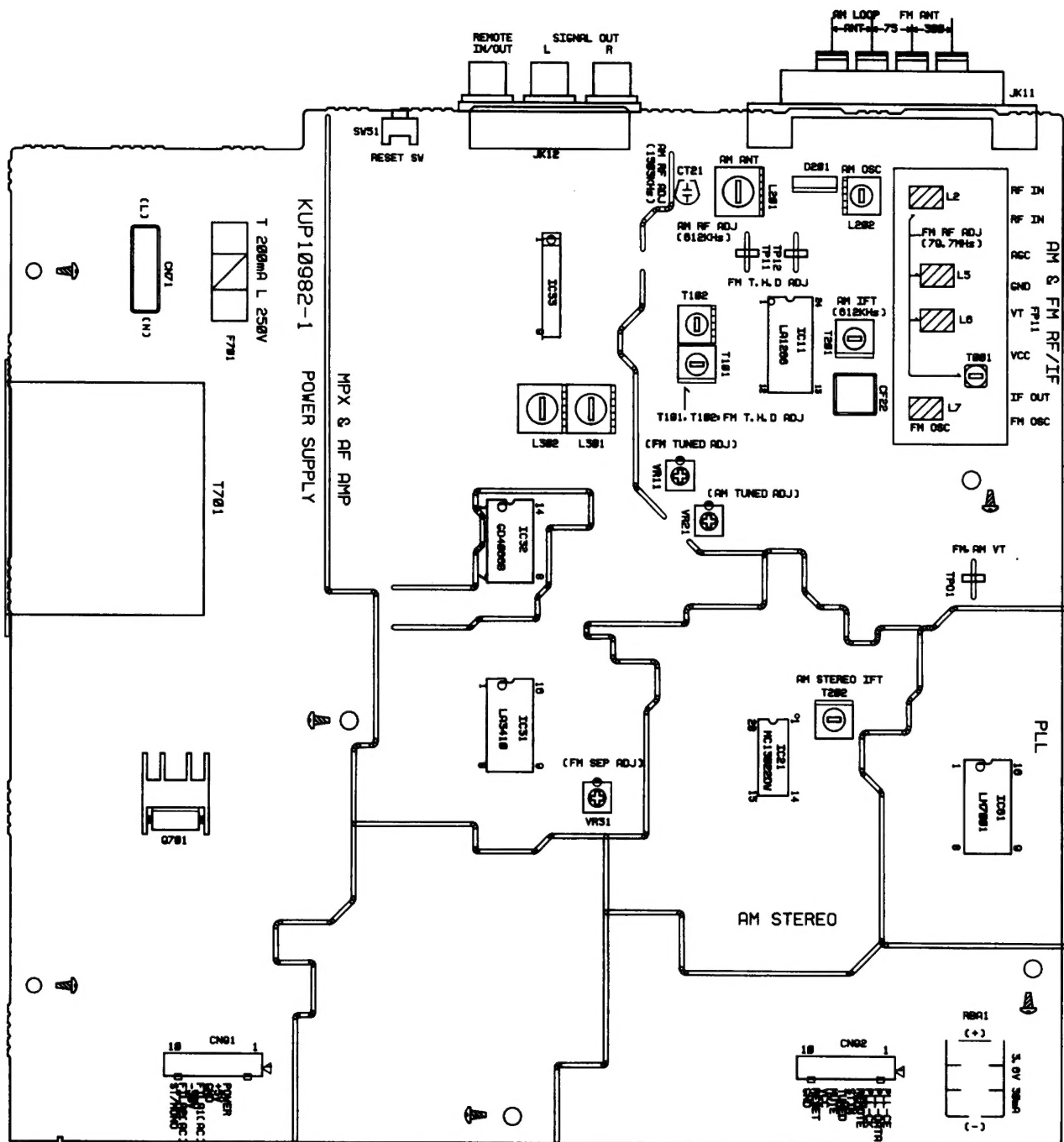
| Pilot Signal | Adjust for                           | Adjustment |
|--------------|--------------------------------------|------------|
| ON           | Different of R and L must be maximum | T201       |

**NOTE :** In case of adjusting the stereo separation, of input is L (or R) channel, R (or L) channel must be maximum.

### ADJUSTMENT POINT [EUR]



# ADJUSTMENT POINT [DM]



# IC FUNCTION

| PIN No.     | SYMBOL              | IN/OUT | DESCRIPTION  |
|-------------|---------------------|--------|--|
| 1           | REMOT IN            | I      | REMOTE CONTROL INPUT   |
| 2           | VCC                 | I      | VDD CONNECTION   |
| 3           | BACK UP/ CE         | I      | BACK UP MODE CONTROL   |
| 4, 94       | TUNING<br>UP / DOWN | I      | <div> <div> TUNING UP  </div> <div> TUNING DOWN  </div> <div>  </div> </div> |
| 5           | TUNED               | I      | TUNED DISPLAY INPUT  |
| 6, 7, 9, 10 | N.C                 |        | NO CONNECTION  |
| 11          | RDS DATA            | I      | RDS DATA INPUT   |
| 8, 12~14    | AREA<br>OPTION      | I      | 12, GROUND (EUROPE)  |
| 15, 20      | N.C                 |        | NO CONNECTION  |
| 16~19       | KEY IN              | I      | KEY MATRIX INPUT   |
| 21~23       | KEY OUT             | O      | KEY MATRIX OUTPUT  |
| 24          | N.C                 |        | NO CONNECTION  |
| 25          | POWER               | O      | TUNER POWER ON   |
| 26          | MUTE                | O      | MUTE OUTPUT  |
| 27          | MONO/STEREO         | O      | MONO/STEREO SWITCHING OUTPUT   |
| 28~37       | N.C                 |        | NO CONNECTIN   |
| 38          | RESET               | I      | RESET IN   |
| 39          | EXTAL               | O      | 8.0MHz CRYSTAL U-COM OPERATOR  |
| 40          | XTAL                | I      |  |
| 41          | VSS                 |        | GROUND   |
| 42          | TX                  | I      | 32.768KHz CRYSTAL TIME OPERATOR  |
| 43          | TEX                 | O      |  |
| 44, 45      | N.C                 |        | NO CONNECTION  |
| 46          | AVREF               |        | +4.8V VDD  |
| 47          | AVSS                |        | ANALOG GROUND  |
| 48~70       | S0~S22              | O      | FIP SEGMENT OUTPUT   |
| 71~74       | N.C                 |        | NO CONNECTION  |
| 75~87       | G13~G0              | O      | FIP GRIDE OUTPUT   |
| 88          | VFIP                | I      | FIP VDD : -30V   |
| 89, 90      | VDD                 | I      | +4.8V VDD  |
| 91          | VSS                 |        | GROUND   |
| 92, 93      | N.C                 |        | NO CONNECTION  |
| 95          | STEREO              | I      | STEREO INPUT   |
| 96          | PLL-CK              | O      | PLL SERIAL CLOCK OUTPUT  |
| 97          | PLL-DI              | O      | PLL SERIAL DATA OUTPUT   |
| 98          | PLL-CE              | O      | PLL SERIAL CHIP ENABLE OUTPUT  |
| 99          | REMOTE OUT          | O      | REMOTE CONTROL OUTPUT  |
| 100         | RES CK              | I      | RDS CLOCK INPUT  |



9



DC 180V, 50/60 Hz

AM & FM RF/IF

PLL

AM STEREO

MPX & AF AMP

POWER SUPPLY

KUP10082-1

KUP10082-2

FP11

IC01

IC21

IC31

IC32

IC33

IC34

IC35

T701

F701

CB01

CH01

CH02

CH03

CH04

CH05

CH06

CH07

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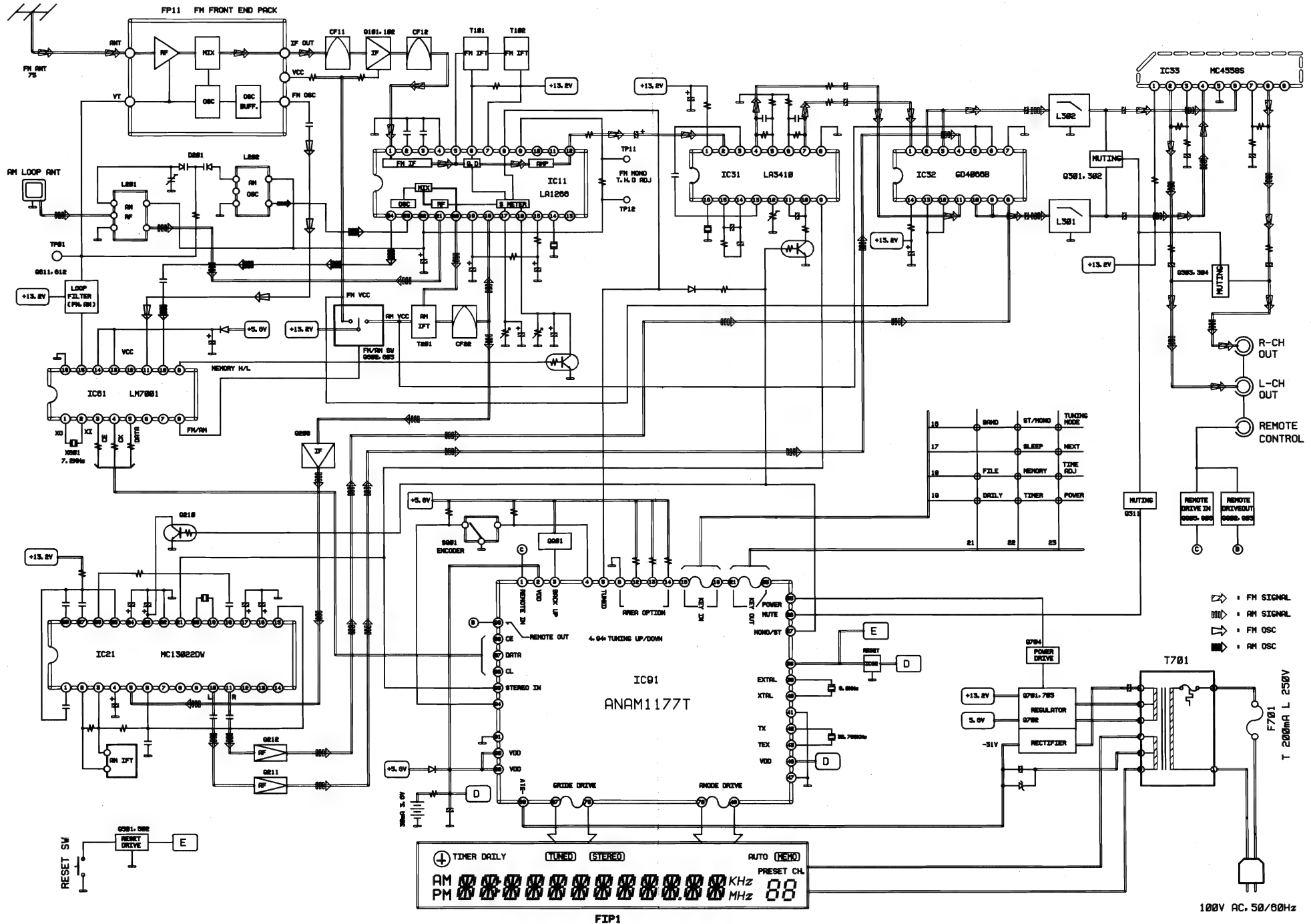
CH372

CH373

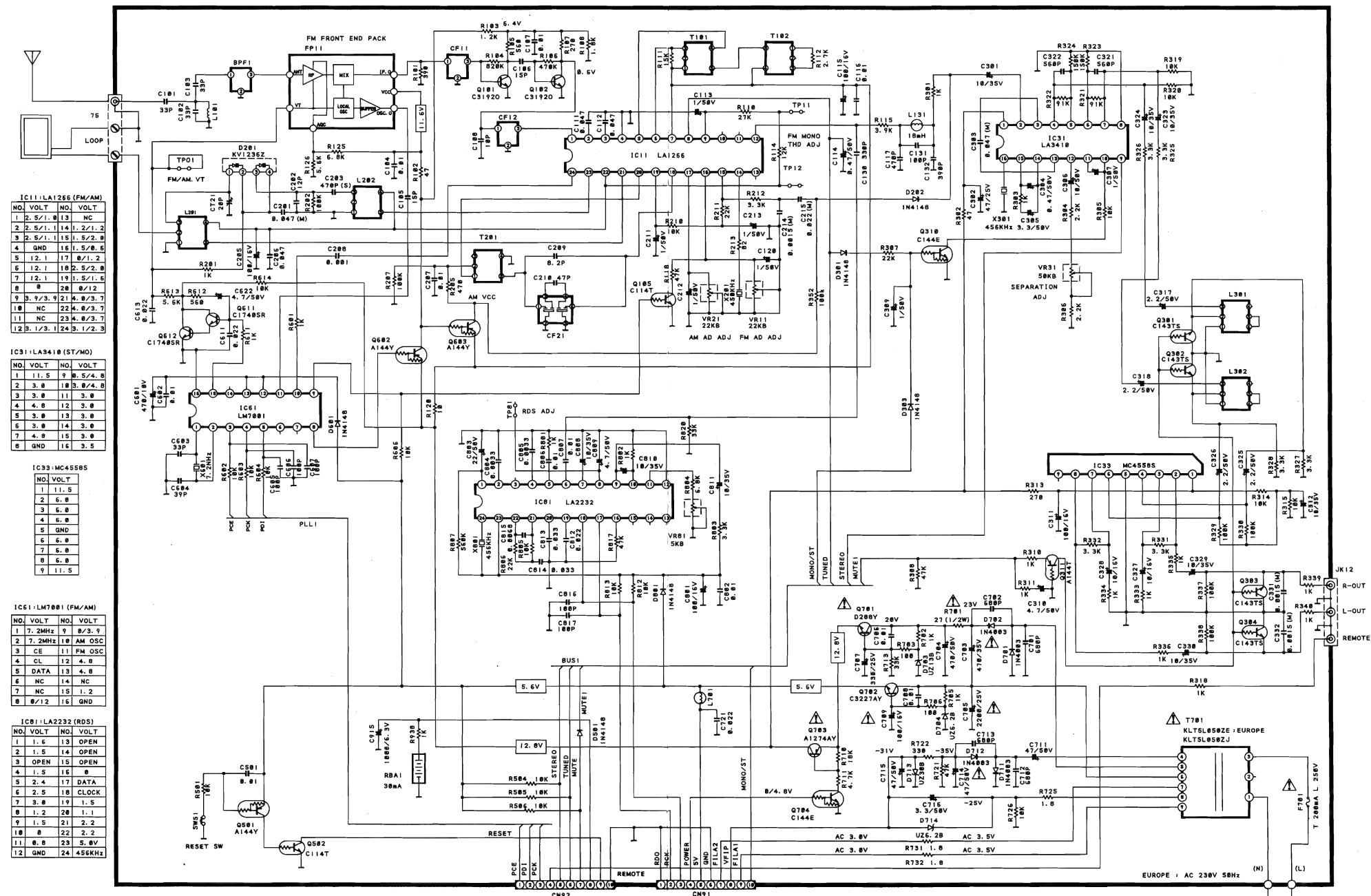
CH374

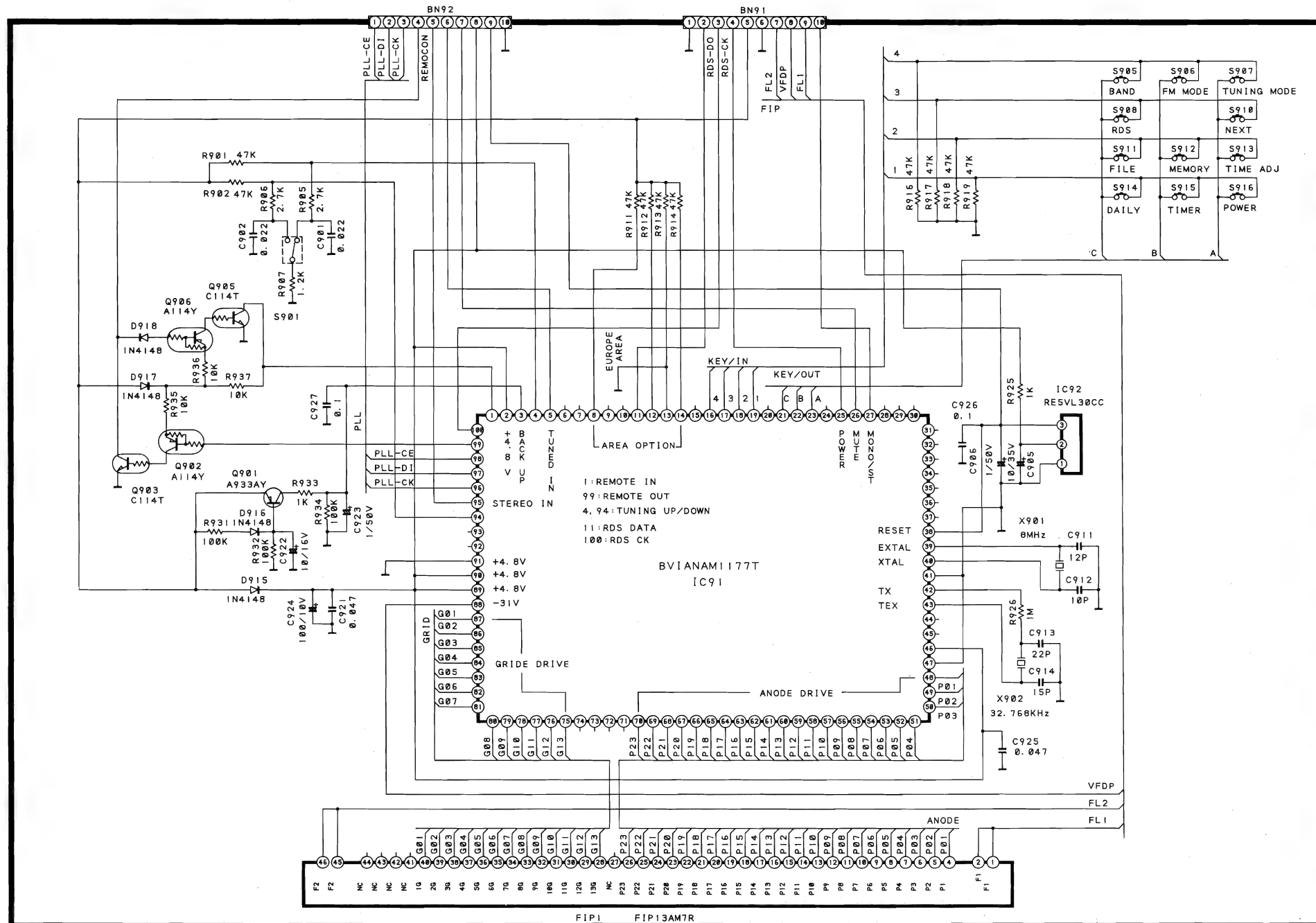


# BLOCK DIAGRAM [DM]

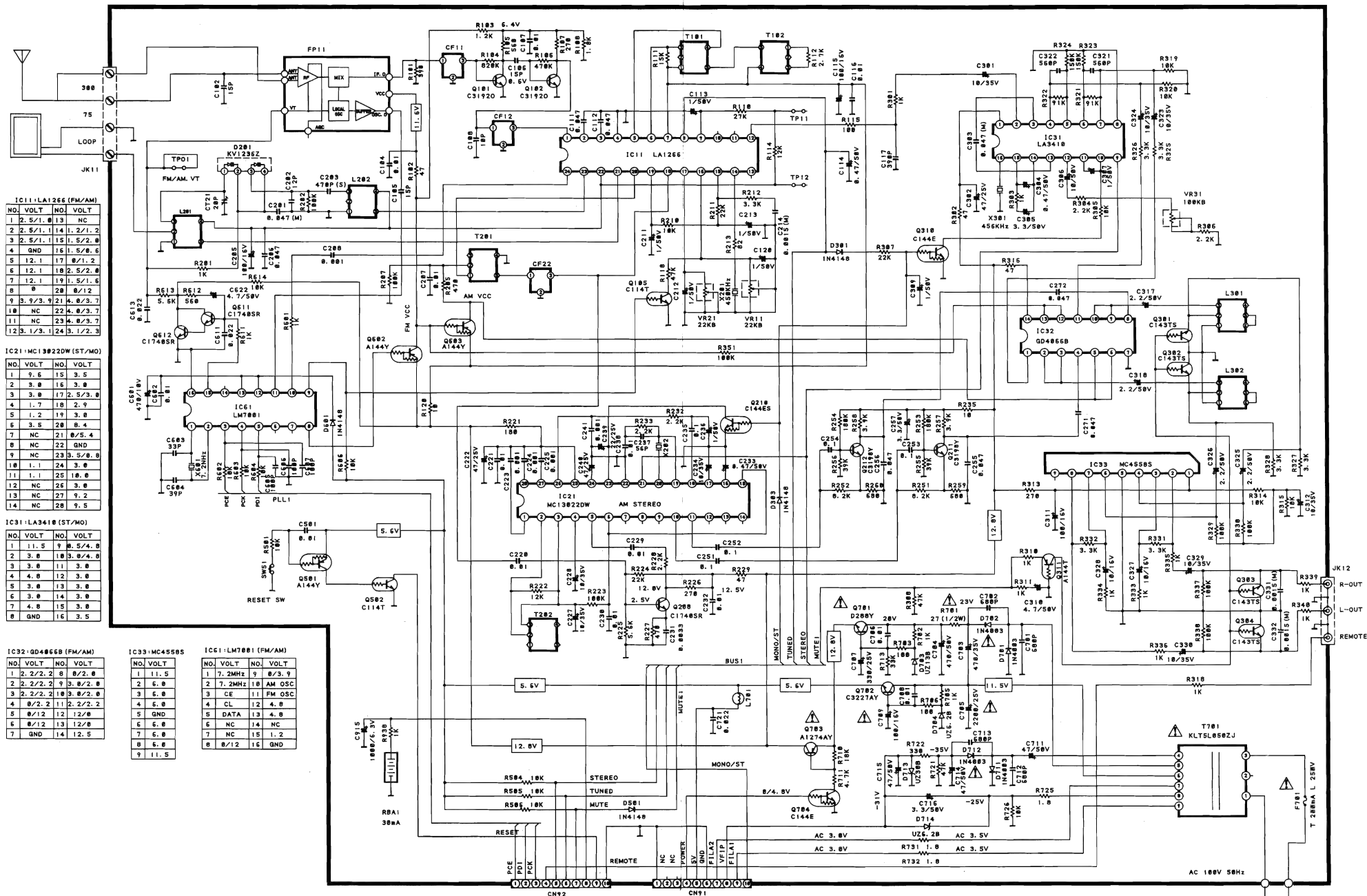


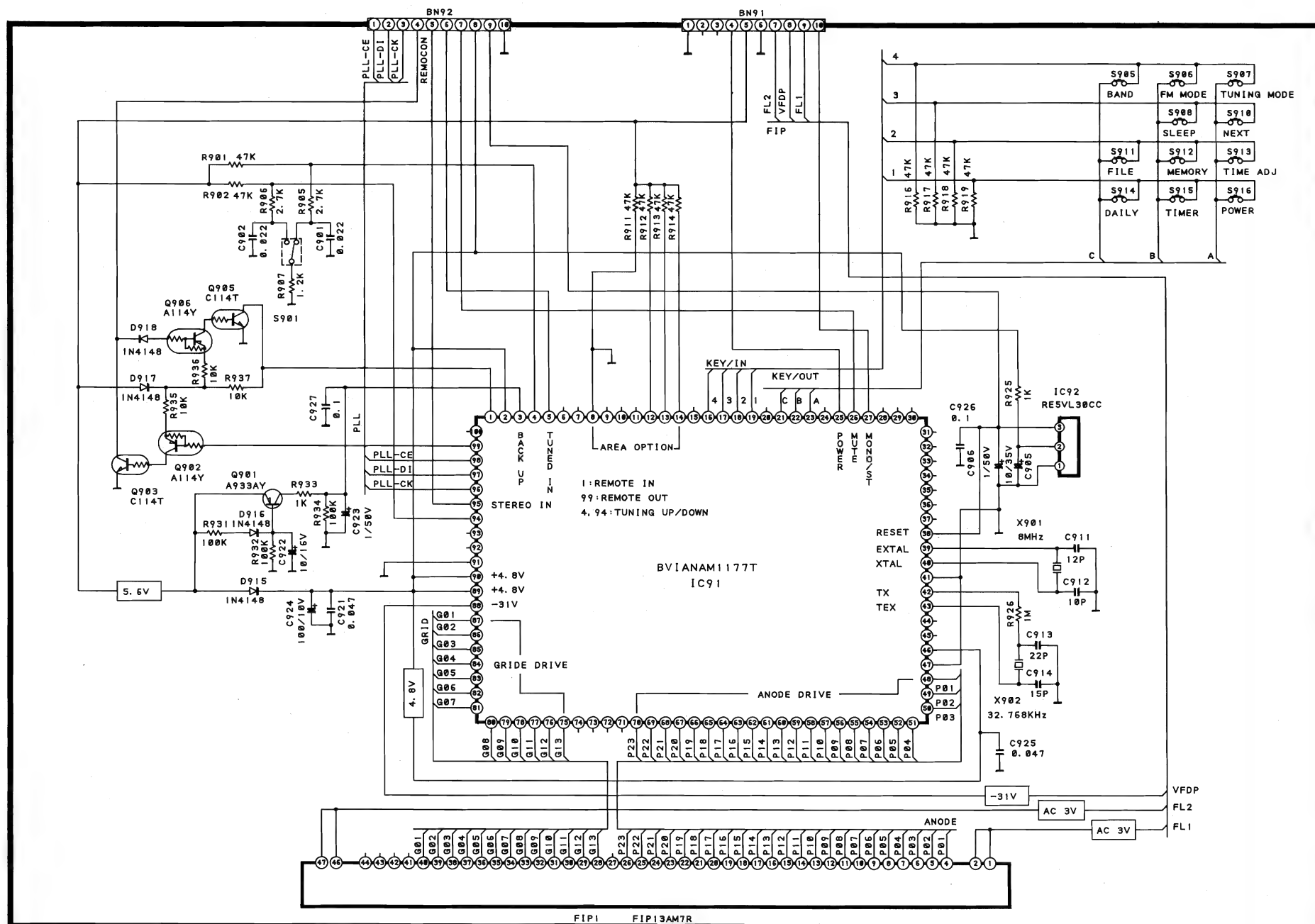
# SCHEMATIC DIAGRAM [EUR]





# SCHEMATIC DIAGRAM [DM]





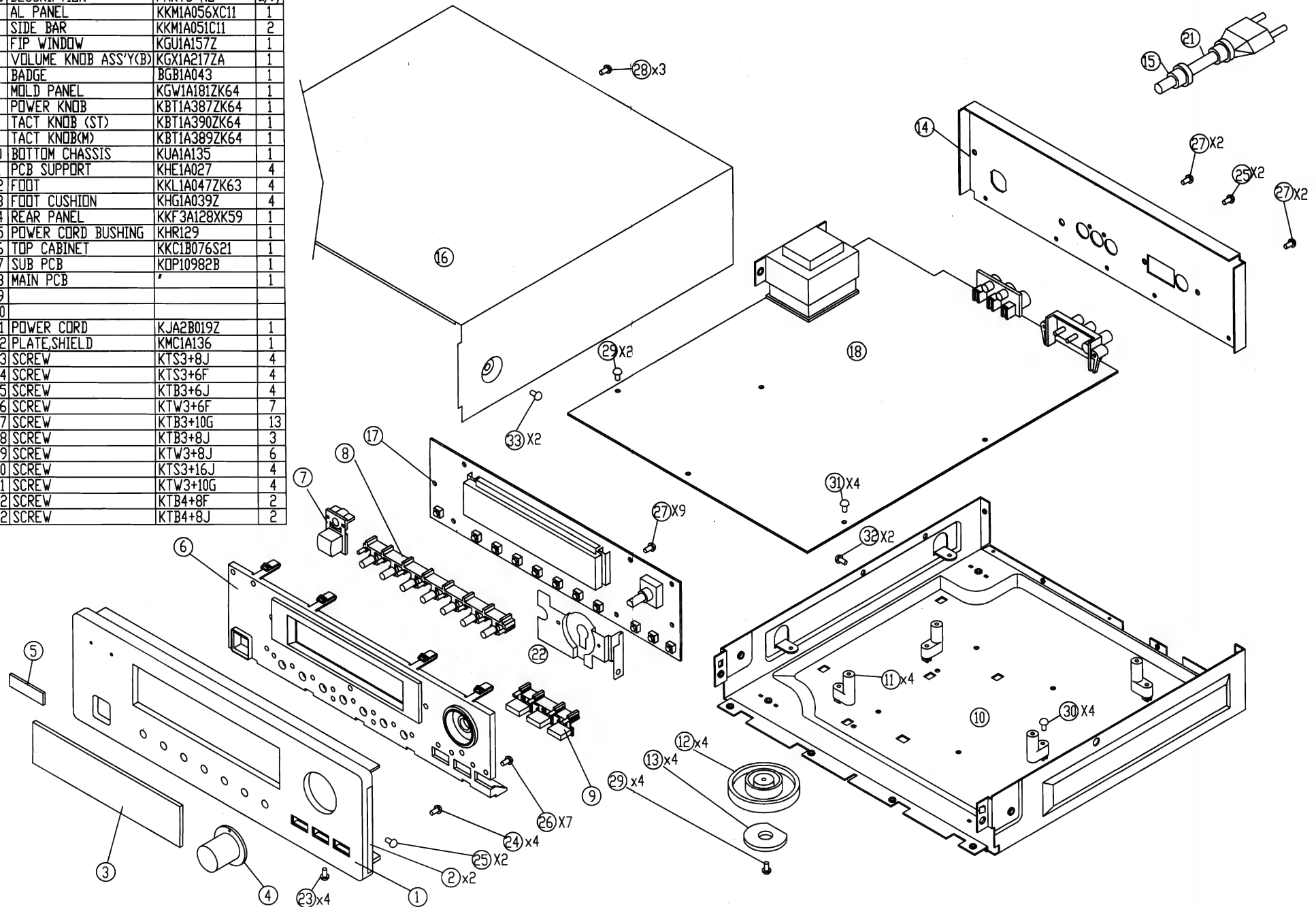


**COMPONENT VALUES**

| CODE | VALUE | UNIT | CODE | VALUE | UNIT |
|------|-------|------|------|-------|------|
| K001 | 10K   | Ω    | K002 | 10K   | Ω    |
| K003 | 10K   | Ω    | K004 | 10K   | Ω    |
| K005 | 10K   | Ω    | K006 | 10K   | Ω    |
| K007 | 10K   | Ω    | K008 | 10K   | Ω    |
| K009 | 10K   | Ω    | K010 | 10K   | Ω    |
| K011 | 10K   | Ω    | K012 | 10K   | Ω    |
| K013 | 10K   | Ω    | K014 | 10K   | Ω    |
| K015 | 10K   | Ω    | K016 | 10K   | Ω    |
| K017 | 10K   | Ω    | K018 | 10K   | Ω    |
| K019 | 10K   | Ω    | K020 | 10K   | Ω    |
| K021 | 10K   | Ω    | K022 | 10K   | Ω    |
| K023 | 10K   | Ω    | K024 | 10K   | Ω    |
| K025 | 10K   | Ω    | K026 | 10K   | Ω    |
| K027 | 10K   | Ω    | K028 | 10K   | Ω    |
| K029 | 10K   | Ω    | K030 | 10K   | Ω    |
| K031 | 10K   | Ω    | K032 | 10K   | Ω    |
| K033 | 10K   | Ω    | K034 | 10K   | Ω    |
| K035 | 10K   | Ω    | K036 | 10K   | Ω    |
| K037 | 10K   | Ω    | K038 | 10K   | Ω    |
| K039 | 10K   | Ω    | K040 | 10K   | Ω    |
| K041 | 10K   | Ω    | K042 | 10K   | Ω    |
| K043 | 10K   | Ω    | K044 | 10K   | Ω    |
| K045 | 10K   | Ω    | K046 | 10K   | Ω    |
| K047 | 10K   | Ω    | K048 | 10K   | Ω    |
| K049 | 10K   | Ω    | K050 | 10K   | Ω    |
| K051 | 10K   | Ω    | K052 | 10K   | Ω    |
| K053 | 10K   | Ω    | K054 | 10K   | Ω    |
| K055 | 10K   | Ω    | K056 | 10K   | Ω    |
| K057 | 10K   | Ω    | K058 | 10K   | Ω    |
| K059 | 10K   | Ω    | K060 | 10K   | Ω    |
| K061 | 10K   | Ω    | K062 | 10K   | Ω    |
| K063 | 10K   | Ω    | K064 | 10K   | Ω    |
| K065 | 10K   | Ω    | K066 | 10K   | Ω    |
| K067 | 10K   | Ω    | K068 | 10K   | Ω    |
| K069 | 10K   | Ω    | K070 | 10K   | Ω    |
| K071 | 10K   | Ω    | K072 | 10K   | Ω    |
| K073 | 10K   | Ω    | K074 | 10K   | Ω    |
| K075 | 10K   | Ω    | K076 | 10K   | Ω    |
| K077 | 10K   | Ω    | K078 | 10K   | Ω    |
| K079 | 10K   | Ω    | K080 | 10K   | Ω    |
| K081 | 10K   | Ω    | K082 | 10K   | Ω    |
| K083 | 10K   | Ω    | K084 | 10K   | Ω    |
| K085 | 10K   | Ω    | K086 | 10K   | Ω    |
| K087 | 10K   | Ω    | K088 | 10K   | Ω    |
| K089 | 10K   | Ω    | K090 | 10K   | Ω    |
| K091 | 10K   | Ω    | K092 | 10K   | Ω    |
| K093 | 10K   | Ω    | K094 | 10K   | Ω    |
| K095 | 10K   | Ω    | K096 | 10K   | Ω    |
| K097 | 10K   | Ω    | K098 | 10K   | Ω    |
| K099 | 10K   | Ω    | K100 | 10K   | Ω    |
| K101 | 10K   | Ω    | K102 | 10K   | Ω    |
| K103 | 10K   | Ω    | K104 | 10K   | Ω    |
| K105 | 10K   | Ω    | K106 | 10K   | Ω    |
| K107 | 10K   | Ω    | K108 | 10K   | Ω    |
| K109 | 10K   | Ω    | K110 | 10K   | Ω    |
| K111 | 10K   | Ω    | K112 | 10K   | Ω    |
| K113 | 10K   | Ω    | K114 | 10K   | Ω    |
| K115 | 10K   | Ω    | K116 | 10K   | Ω    |
| K117 | 10K   | Ω    | K118 | 10K   | Ω    |
| K119 | 10K   | Ω    | K120 | 10K   | Ω    |
| K121 | 10K   | Ω    | K122 | 10K   | Ω    |
| K123 | 10K   | Ω    | K124 | 10K   | Ω    |
| K125 | 10K   | Ω    | K126 | 10K   | Ω    |
| K127 | 10K   | Ω    | K128 | 10K   | Ω    |
| K129 | 10K   | Ω    | K130 | 10K   | Ω    |
| K131 | 10K   | Ω    | K132 | 10K   | Ω    |
| K133 | 10K   | Ω    | K134 | 10K   | Ω    |
| K135 | 10K   | Ω    | K136 | 10K   | Ω    |
| K137 | 10K   | Ω    |      |       |      |

## EXPLODED VIEW

| NO | DESCRIPTION          | PARTS-NO     | Qty |
|----|----------------------|--------------|-----|
| 1  | AL PANEL             | KKM1A056XC11 | 1   |
| 2  | SIDE BAR             | KKM1A051C11  | 2   |
| 3  | FIP WINDOW           | KGU1A157Z    | 1   |
| 4  | VOLUME KNOB ASS'Y(B) | KGX1A217ZA   | 1   |
| 5  | BADGE                | BGB1A043     | 1   |
| 6  | MOLD PANEL           | KGW1A181ZK64 | 1   |
| 7  | POWER KNOB           | KBT1A387ZK64 | 1   |
| 8  | TACT KNOB (ST)       | KBT1A390ZK64 | 1   |
| 9  | TACT KNOB(M)         | KBT1A389ZK64 | 1   |
| 10 | BOTTOM CHASSIS       | KUA1A135     | 1   |
| 11 | PCB SUPPORT          | KHE1A027     | 4   |
| 12 | FOOT                 | KKL1A047ZK63 | 4   |
| 13 | FOOT CUSHION         | KHG1A039Z    | 4   |
| 14 | REAR PANEL           | KKF3A128XK59 | 1   |
| 15 | POWER CORD BUSHING   | KHR129       | 1   |
| 16 | TOP CABINET          | KKC1B076S21  | 1   |
| 17 | SUB PCB              | KDP10982B    | 1   |
| 18 | MAIN PCB             |              | 1   |
| 19 |                      |              |     |
| 20 |                      |              |     |
| 21 | POWER CORD           | KJA2B019Z    | 1   |
| 22 | PLATE,SHIELD         | KMC1A136     | 1   |
| 23 | SCREW                | KTS3+8J      | 4   |
| 24 | SCREW                | KTS3+6F      | 4   |
| 25 | SCREW                | KTB3+6J      | 4   |
| 26 | SCREW                | KTW3+6F      | 7   |
| 27 | SCREW                | KTB3+10G     | 13  |
| 28 | SCREW                | KTB3+8J      | 3   |
| 29 | SCREW                | KTW3+8J      | 6   |
| 30 | SCREW                | KTS3+16J     | 4   |
| 31 | SCREW                | KTW3+10G     | 4   |
| 32 | SCREW                | KTB4+8F      | 2   |
| 32 | SCREW                | KTB4+8J      | 2   |



**EXPLODED VIEW [T-H500]**

| Ref. No. | Part No.   | Description                     | Remarks |
|----------|------------|---------------------------------|---------|
| 1        | 9A06259800 | PANEL, AL [DM]                  |         |
|          | 9A06555000 | PANEL, AL [EUR]                 |         |
| 2        | 9A06251600 | BAR, SIDE                       |         |
| 3        | 9A06258900 | WINDOW                          |         |
| 4        | 9A06228300 | VOLUME CAP ASS'Y (B)            |         |
| 5        | 9A06224200 | BADGE, TEAC                     |         |
| 6        | 9A06317600 | PANEL, MOLD AT-77               |         |
| 7        | 9A06314500 | KNOB, POWER                     |         |
| 8        | 9A06317500 | KNOB, TACT                      |         |
| 9        | 9A06317400 | KNOB, TACT                      |         |
| 10       | 9A06317700 | BUTTON CHASSIS                  |         |
| 11       | 9A06259200 | SUPPORT, PCB                    |         |
| 12       | 9A06315500 | FOOT                            |         |
| 13       | 9A06229300 | CUSHION, FOOT                   |         |
| 14       | 9A06259600 | PANEL, REAR [DM]                |         |
|          | 9A06317200 | PANEL, REAR [EUR]               |         |
| 15       | 9A01376900 | BUSHING, AC CORD HEYCO(SR-5N-4) |         |
| 16       | 9A06251100 | CABINET, TOP                    |         |
| 17,18    | 9A06260400 | TUNER PCB ASS'Y [DM]            |         |
|          | 9A06260410 | TUNER PCB ASS'Y [EUR]           |         |
| 21       | 9A06242000 | CORD, POWER [DM]                |         |
|          | 9A05328100 | CORD, POWER [EUR]               |         |
| 22       |            | PALTE, SHIELD                   |         |
| 23       | 9A01397400 | SCREW, KTS3+8J                  |         |
| 24       | 9A06229000 | SCREW, SPECIAL                  |         |
| 25       | 9A01532600 | SCREW, KTB3+6J                  |         |
| 26       | 9A06234700 | SCREW, KTW3+6F                  |         |
| 27       | 9A01377400 | SCREW, KTB3+10G                 |         |
| 28       | 9A01377200 | SCREW, KTB3+8JFZ                |         |
| 29       | 9A05339200 | SCREW, KTW3+8J                  |         |
| 30       | 9A01377400 | SCREW, KTB3+10G                 |         |
| 31       | 9A06555100 | SCREW, KTB3+12G                 |         |
| 32       | 9A01477800 | SCREW, KTB4+8J                  |         |
| 33       | 9A05984300 | SCREW, KTB4+6FFZ                |         |

**INCLUDED ACCESSORIES**

| Ref. No. | Part No.   | Description                | Remarks |
|----------|------------|----------------------------|---------|
|          | 9A06054000 | MANUAL, INSTRUCTION, JAPAN |         |
|          | 9A06054400 | MANUAL, INSTRUCTION, MULTI |         |

# ELECTRICAL PARTS LIST

| Ref. No. | Part No.   | Description                   |
|----------|------------|-------------------------------|
| BAT1     | 9A04880100 | BATTERY, RECHARGEABLE         |
| BPF1     | 9A05195100 | B.P.F. 87.5-108MH [EUR]       |
| BN91,92  | 9A06261900 | WIRE ASS'Y                    |
| C203     | 9A01507300 | C, STYROLE 470PF/50V          |
| C703     | 9A06258800 | C, ELECT                      |
| C704     | 9A06171800 | C, ELECT                      |
| C705     | 9A01402000 | C, ELECT 2200UF/25V           |
| CF11, 12 | 9A01407600 | FILTER, CERAMIC FM 10.7MHZ    |
| CF21     | 9A01407700 | FILTER, CERAMIC SFZ450F [EUR] |
| CF22     | 9A06258300 | FILTER, CERAMIC SFG450E [DM]  |
| CN71     | 9A05329000 | WAFER MOLEX35309-0210         |
| CN91,92  | 9A05330700 | WAFER MOLEX 53014-1010        |
| CT21     | 9A01405900 | C, VARIABLE 20PF A020S12      |
| D201     | 9A01405200 | DIODE, KV1236Z TOKO           |
| D202     | 9A01390500 | DIODE, 1N4148MT               |
| D301,303 | 9A01390600 | DIODE, 1N4148T                |
| D501     | 9A01390600 | DIODE, 1N4148T                |
| D601     | 9A01390500 | DIODE, 1N4148MT               |
| D701,702 | 9A05194600 | DIODE, 1N4003SRT              |
| D703     | 9A05902000 | DIODE, ZENER, 13V             |
| D704     | 9A05902300 | DIODE, ZENER, 6.2V            |
| D711,712 | 9A05194600 | DIODE, 1N4003SRT              |
| D713     | 9A05902200 | DIODE, ZENER, 30V             |
| D714     | 9A05902300 | DIODE, ZENER, 6.2V            |
| D801     | 9A01390600 | DIODE, 1N4148T                |
| D901     | 9A01390500 | DIODE, 1N4148MT               |
| D915-918 | 9A01390500 | DIODE, 1N4148MT               |
| F701     | 9A05911100 | FUSE, 200MAL/250V             |
| FIP1     | 9A06258000 | F.I.P FIP13AM7R               |
| FP11     | 9A05938700 | PACK, TUNER [EUR]             |
|          | 9A06260300 | PACK, FM FTA4J508H [DM]       |
| IC11     | 9A05938800 | IC, LA1266                    |
| IC21     | 9A06258500 | IC, AM STEREO MC13022DW       |
| IC31     | 9A05938900 | IC, LA3410                    |
| IC32     | 9A06261600 | IC, GD4066B                   |
| IC33     | 9A05195800 | IC, KA4558S                   |
| IC61     | 9A04323300 | IC, LM7001                    |
| IC81     | 9A05939100 | IC, LA2232                    |
| IC91     | 9A06258400 | IC, TUNER U-COM CXP82432      |
| IC92     | 9A05317300 | IC, (RESET) RE5VA30CC         |

| Ref. No. | Part No.   | Description                      |
|----------|------------|----------------------------------|
| JK11     | 9A04875900 | TERMINAL, ANT DC-D2100           |
| JK11     | 9A06259400 | TERMINAL, ANT 75/300             |
| JK12     | 9A06259500 | TERMINAL, RCA JACK               |
| JW11     | 9A06171900 | WIRE ASS'Y                       |
| L101     | 9A04875000 | COIL, FILTER DC-D2100            |
| L131     | 9A04883300 | COIL [EUR]                       |
| L201     | 9A06259900 | COIL, AM ANT2                    |
| L202     | 9A05332500 | COIL, AM OSC 2B008Z              |
| L211     | 9A06274000 | COIL, 02C6R8KT [EUR]             |
| L301,302 | 9A01407300 | COIL, MPX                        |
| L701     | 9A03746700 | COIL, INDUCTOR                   |
| Q101,102 | 9A05197300 | TR, KTC3192OT                    |
| Q105     | 9A05911500 | TR, DTC114TS                     |
| Q208     | 9A05197300 | TR, KTC3192OT                    |
| Q210     | 9A06066800 | TR, DTC144EST                    |
| Q211,212 | 9A05892800 | TR, KTC3198YT                    |
| Q301,302 | 9A06261800 | TR, DTC143TST                    |
| Q303,304 | 9A06261800 | TR, DTC143TST                    |
| Q310     | 9A06066800 | TR, DTC144EST                    |
| Q311     | 9A06261700 | TR, DTA144TST                    |
| Q501     | 9A05196400 | TR, DTA114YST                    |
| Q502     | 9A05911500 | TR, DTC114TS                     |
| Q602,603 | 9A05196400 | TR, DTA114YST                    |
| Q611,612 | 9A05939500 | TR, 2SC1740SR                    |
| Q701     | 9A05937400 | HEAT SINK ASSY                   |
| Q702     | 9A05939600 | TR, KTC3227Y                     |
| Q703     | 9A05939700 | TR, KTA1274Y                     |
| Q704     | 9A06066800 | TR, DTC144EST                    |
| Q901     | 9A05911600 | TR, 2SA933SR                     |
| Q902     | 9A05196400 | TR, DTA114YST                    |
| Q903,905 | 9A05911500 | TR, DTC114TS                     |
| Q906     | 9A05196400 | TR, DTA114YST                    |
| R701     | 9A06317800 | R., FUSIBLE 27-OHM/0.5W          |
| S901     | 9A06258100 | ENCODER, VR EC16B24104           |
| S905-916 | 9A04882500 | SW, TACT SKHV10910A              |
| SW51     | 9A04882400 | SW, TACT DC-D2100                |
| T101     | 9A05940200 | IFT, FM, KLI3B020-G              |
| T102     | 9A05940300 | IFT, FM, KLI3B021-G              |
| T201     | 9A05939400 | IFT, AM [EUR]                    |
| T201     | 9A06260100 | I.F.T, AM 2B105-G [DM]           |
| T202     | 9A06260000 | I.F.T, AM 2B104-G                |
| T701     | 9A06260200 | TRANS, POWER [DM]                |
| T701     | 9A06317900 | TRANS, POWER [EUR]               |
| VR11,21  | 9A05317700 | VR, SEMI FIX EVNDJAA03B24        |
| VR31     | 9A05317500 | R, SEMI FIXED EVNDJAA03B15 [DM]  |
|          |            | R, SEMI FIXED EVNDJAA03B54 [EUR] |
| VR81     | 9A05940500 | R, SEMI FIXED EVNDJAA03B53       |

| Ref. No. | Part No.   | Description                 |
|----------|------------|-----------------------------|
| X201     | 9A05940600 | RESONATOR,BFU450C4N         |
| X202     | 9A06258200 | RESONATOR,CSA3.60MGF103     |
| X301     | 9A05317200 | RESONATOR,CERAMIC CSB456F11 |
| X601     | 9A04874300 | CRYSTAL, DC-D2100           |
| X801     | 9A05940800 | RESONATOR,CERAMIC CSB456F33 |
| X901     | 9A05193000 | CRYSTAL, DC-D1800           |
| X902     | 9A05188800 | CRYSTAL 32.768KHZ DT-38     |

| Ref. No. | Part No. | Description |
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|----------|----------|-------------|



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| TEAC CORPORATION                                | 3-7-3, Nakacho, Musashino-shi, Tokyo 180, Japan Phone: (0422) 52-5081                                |
| TEAC AMERICA, INC.                              | 7733 Telegraph Road, Montebello, California 90640 Phone: (213) 726-0303                              |
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| TEAC AUSTRALIA PTY., LTD.<br>A.C.N. 005 408 462 | 106 Bay Street, Port Melbourne, Victoria 3207, Australia Phone: (03) 646-1733                        |
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